GOVERNMENT OF INDIA
POWER
LOK SABHA

UNSTARRED QUESTION NO:2093
ANSWERED ON:06.12.2012
USE OF LED BULBS
Sugavanam Shri E.G.

Will the Minister of POWER be pleased to state:

(a) whether Light Emitting Diode (LED) bulbs are more energy efficient than the conventional bulbs and Compact Fluorescent Lamps (CFLs);

(b) if so, the details thereof;

(c) whether the Union Government has issued any directions to the State Governments to promote the use of LEDs and make it available at subsidized rates to the domestic consumers;

(d) if so, the details thereof; and

(e) if not, the reasons therefor?

Answer

THE MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF POWER (SHRI JYOTIRADITYA M. SCINDIA)

(a) & (b) : The efficiency of an Light Emitting Diode (LED) bulb can be assessed from the fact that a 6-8 Watt LED bulb provides light output (Lumens) equivalent to a 13-18 Watt CFL and a 60 Watt incandescent bulb. Replacement of an incandescent bulb by an LED bulb of equivalent lumens could give energy saving of around 80%. Therefore, the efficacy (lumens per watt) of an LED bulb is about 100 while that of an incandescent bulb is only around 15. In addition to its efficacy, the LED bulbs carries a life of about 50000 hours while an incandescent bulb lasts for about 1000 hrs. and CFL for about 6000.

(c) to (e) : The use of LED is promoted by Bureau of Energy Efficiency (BEE) under its LED Village Campaign Scheme where villages are adopted for demonstration projects and LED bulbs are provided free of cost.